

**The Primary Stage of Grades (4-5)**  
**School Year 2022- 2023**

Name: Key

Subject: Science

Unit 1: The Respiratory and Circulatory System  
Worksheet 1: Human Respiratory System

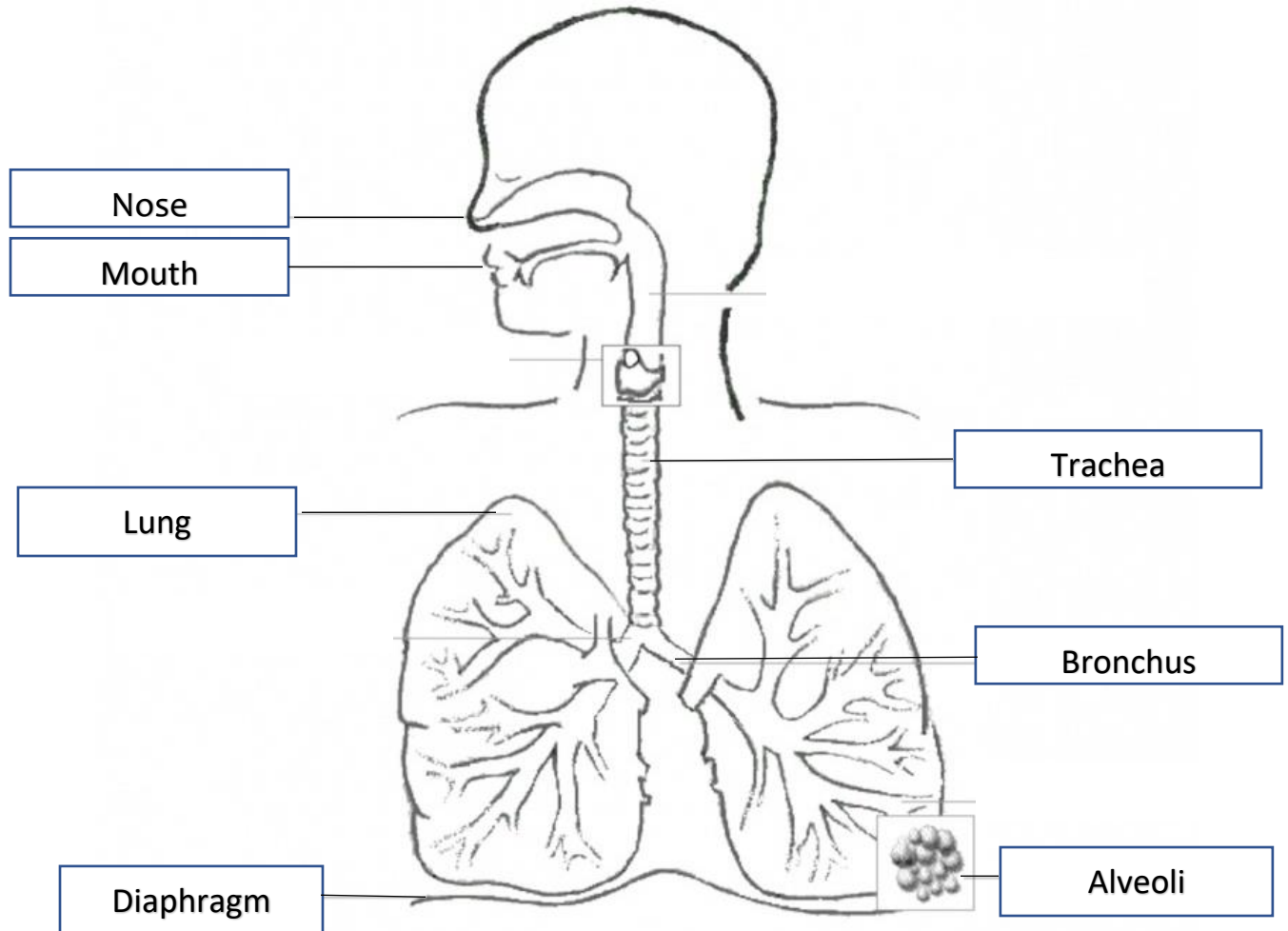
Date:     /     /

Class: Grade 5 CP (All sections)

**-Objective:**

- Identify different organs of the human respiratory system.
- Describe what happens to breathing rate while exercising.

**Question 1:** Label the following parts of the respiratory system:

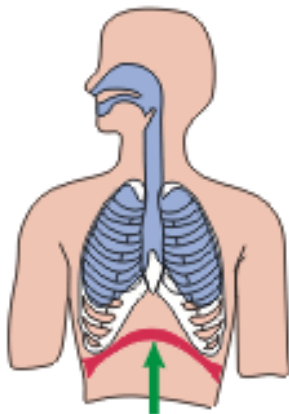


**Question 2:** Amir investigates how exercise affects his breathing rate. He runs for two minutes and stops. He finds that his breathing rate increases.

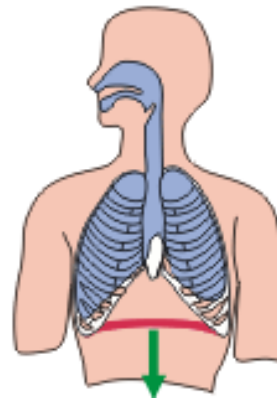
Tick (✓) the **two** correct sentences.

- He breathes more quickly to bring more oxygen to his blood.
- His body needs more carbon dioxide during exercise.
- His body needs to produce more energy during exercise.
- His breathing rate increases because he is sick.

**Question 3:** Study the diagram below and tell which represents the diaphragm and the lungs during inhaling, and which during exhaling.

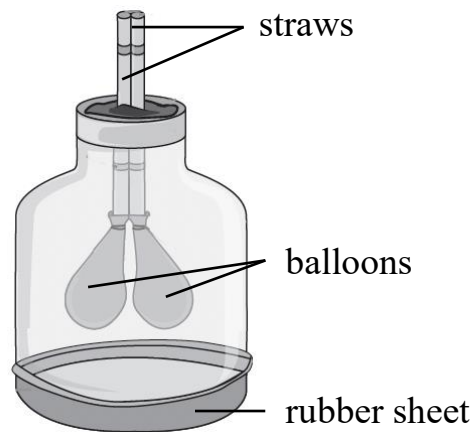


Exhaling (Breathing out).  
Diaphragm moves upward.



Inhaling (Breathing in).  
Diaphragm moves downwards.

**Question 4:** Safia makes a model of the respiratory system.



(a) Which parts of the respiratory system are represented by the balloons and the rubber sheet?

Balloons:     Lungs          Rubber sheet:   Diaphragm  

(b) When Safia pulls the rubber sheet down, the balloons expand. When she releases the rubber sheet, the balloons get smaller. How is this similar to breathing in and out?

When the diaphragm moves downwards the lungs become bigger and air enters into the lungs.

When the diaphragm moves upwards the lungs become smaller and air is pushed out of the lungs.